

HTIRC-03-001



November 18, 2003

To: Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Fr: George O. Saile, Reg. No. 19,572
28 Davis Avenue
Poughkeepsie, N.Y. 12603

Subject:

Serial No. 10/650,602 08/28/03

Charles C. Lin et al.

CPP READ HEAD FOR HIGH DENSITY AND
SHIELD NOISE SUPPRESSION

Grp. Art Unit: _____

INFORMATION DISCLOSURE STATEMENT

Enclosed is Form PTO-1449, Information Disclosure Citation
In An Application.

The following Patents and/or Publications are submitted to
comply with the duty of disclosure under CFR 1.97-1.99 and
37 CFR 1.56. Copies of each document is included herewith.

CERTIFICATE OF MAILING

I hereby certify that this correspondence is being
deposited with the United States Postal Service as first class
mail in an envelope addressed to: Commissioner for Patents,
P.O. Box 1450, Alexandria, VA 22313-1450, on November 20, 2003.

Stephen B. Ackerman, Reg.# 37761

Signature/Date

SB Ackerman 11/21/03

U.S. Patent 6,515,573 to Dong et al., "Method and System for Providing Edge-Junction TMR Utilizing a Hard Magnet as a Pinned Layer," describes a small free layer resulting in reduced noise.

U.S. Patent 6,473,279 to Smith et al., "In-Stack Single-Domain Stabilization of Free Layers for CIP and CPP Spin-Valve or Tunnel-Valve Read Heads," discusses noise in the free layer.

U.S. Patent 6,469,879 to Redon et al., "Magneto-Resistive Tunnel Junction Head with Biasing Elements Abutting Free Layer Extended Portions," discloses that noise occurs if the free layer is too thin.

U.S. Patent 5,959,811 to Richardson, "Magnetoresistive Transducer with Four-Lead Contact," discloses noise current in the leads.

U.S. Patent 5,784,224 to Rottmayer et al., "Compact Read/Write Head Having Biased GMR Element," teaches a configuration to reduce noise in the read signal.

Sincerely,

A handwritten signature in black ink, appearing to read 'SBA', followed by a horizontal line.

Stephen B. Ackerman,
Reg. No. 37761

Form PTO-1449 INFORMATION DISCLOSURE CITATION IN AN APPLICATION <i>(Use several sheets if necessary)</i>	Docket Number (Optional)	HTIRC-03-001	Application Number	10/650,602
	Applicant	Charles C. Lin et al.		
	Filing Date	08/28/03	Group Art Unit	

U. S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	6515573	2/4/03	Dong et al.	338	32 R	6/19/00
	6473279	10/29/02	Smith et al.	360	324.12	1/4/01
	6469879	10/22/02	Reden et al.	360	324.2	3/2/00
	5959811	9/28/99	Richardson	360	113	1/13/98
	5784224	7/2/98	Rottmayer et al.	360	113	7/17/96

FOREIGN PATENT DOCUMENTS

DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	Translation	
					YES	NO

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.

